

B/K

Notice of Allowability

Application No.	Applicant(s)
10/511,541	KOSHIMIZU ET AL.
Examiner	Art Unit
Kyoung Lee	2812

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to amendment filed on 6/20/2006.
2. The allowed claim(s) is/are 28-34 and 37-40.
3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All
 - b) Some*
 - c) None
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date _____.
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. Notice of References Cited (PTO-892)
2. Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. Notice of Informal Patent Application (PTO-152)
6. Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. Examiner's Amendment/Comment
8. Examiner's Statement of Reasons for Allowance
9. Other _____.



MICHAEL LEBENTRITT
SUPERVISORY PATENT EXAMINER

DETAILED ACTION

REASONS FOR ALLOWANCE

Claims 28-34 and 37-40 are allowed.

The following is an examiner's statement of reasons for allowance for claims:

Claim 28 is allowed because of the prior art, either singly or in combination, fails to anticipate or render obvious, the method, including steps of forming a semiconductor film in said second opening portion, wherein said semiconductor film is formed by joining a second semiconductor film growing from a surface exposed from said second opening portion of said first semiconductor film and a third semiconductor film growing from the main surface of said semiconductor substrate, wherein said second semiconductor film is a poly crystal and said third semiconductor film is a single crystal. These features in combination with the other elements of the claim are neither disclosed nor suggested by the prior art of record.

Claim 38 is allowed because of the prior art, either singly or in combination, fails to anticipate or render obvious, the method, including steps of forming, in said second opening portion, a second polycrystalline semiconductor film growing from a surface exposed from said second opening portion of said first semiconductor film and forming a link base of said bipolar transistor and a third single crystalline semiconductor film growing from the main surface of said semiconductor substrate and forming a true base region and emitter region of said bipolar transistor, by an epitaxial growth method so

that they are joined to each other. The prior art, either singly or in combination, fails to anticipate or render obvious.

Claims 29-34, 37, and 39-40 depend from claim 28 or 38 so they are allowable for the same reason.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kyoung Lee whose telephone number is (571) 272-1982. The examiner can normally be reached on M-F 8:30AM - 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael S. Lebentritt can be reached on (571) 272-1873. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

KL 8/3/06



MICHAEL J. FENNITT
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